

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318003

Luminaire Tested: **GAN-SA9B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41925 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

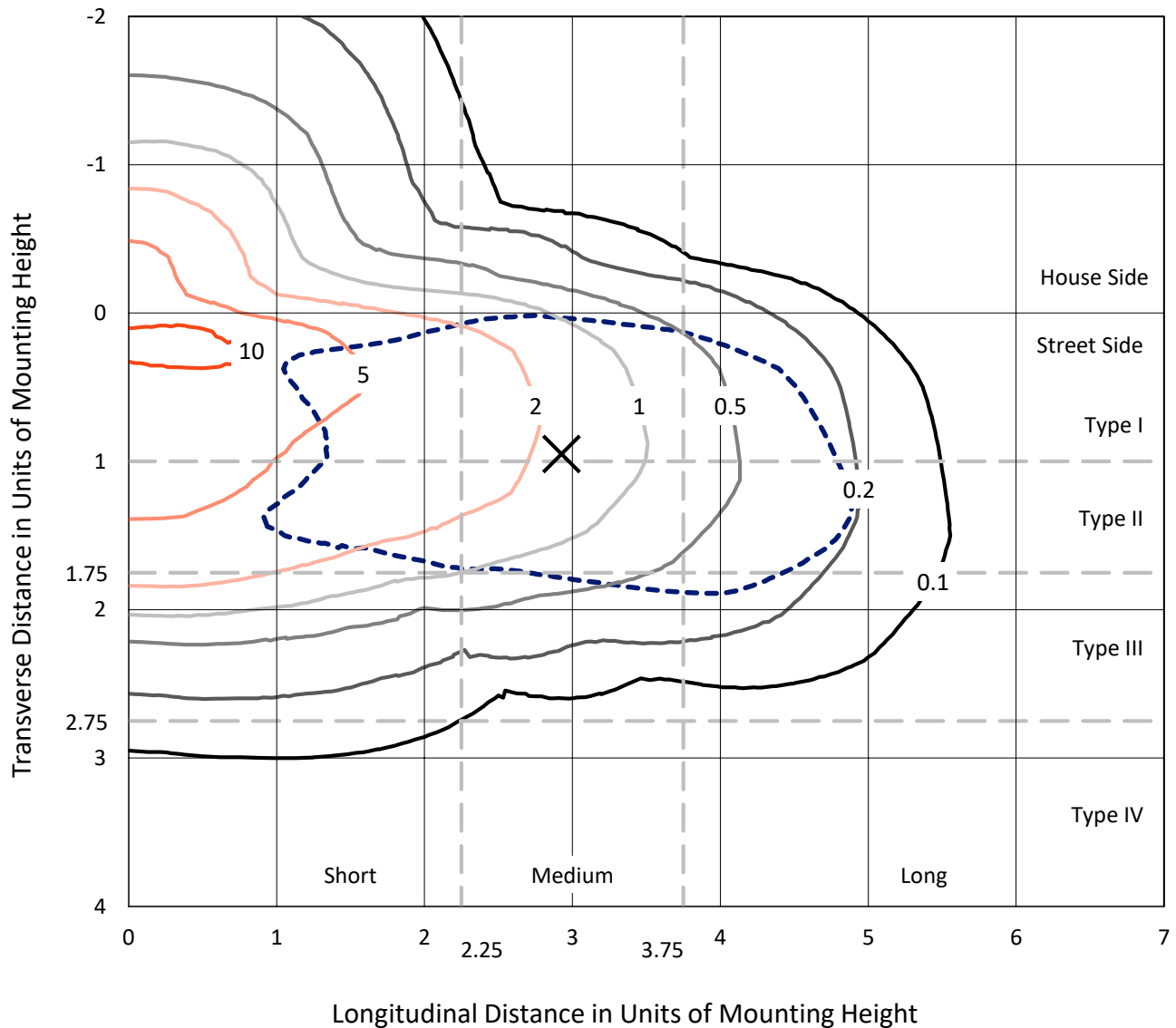
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318003
 CATALOG NUMBER: GAN-SA9B-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

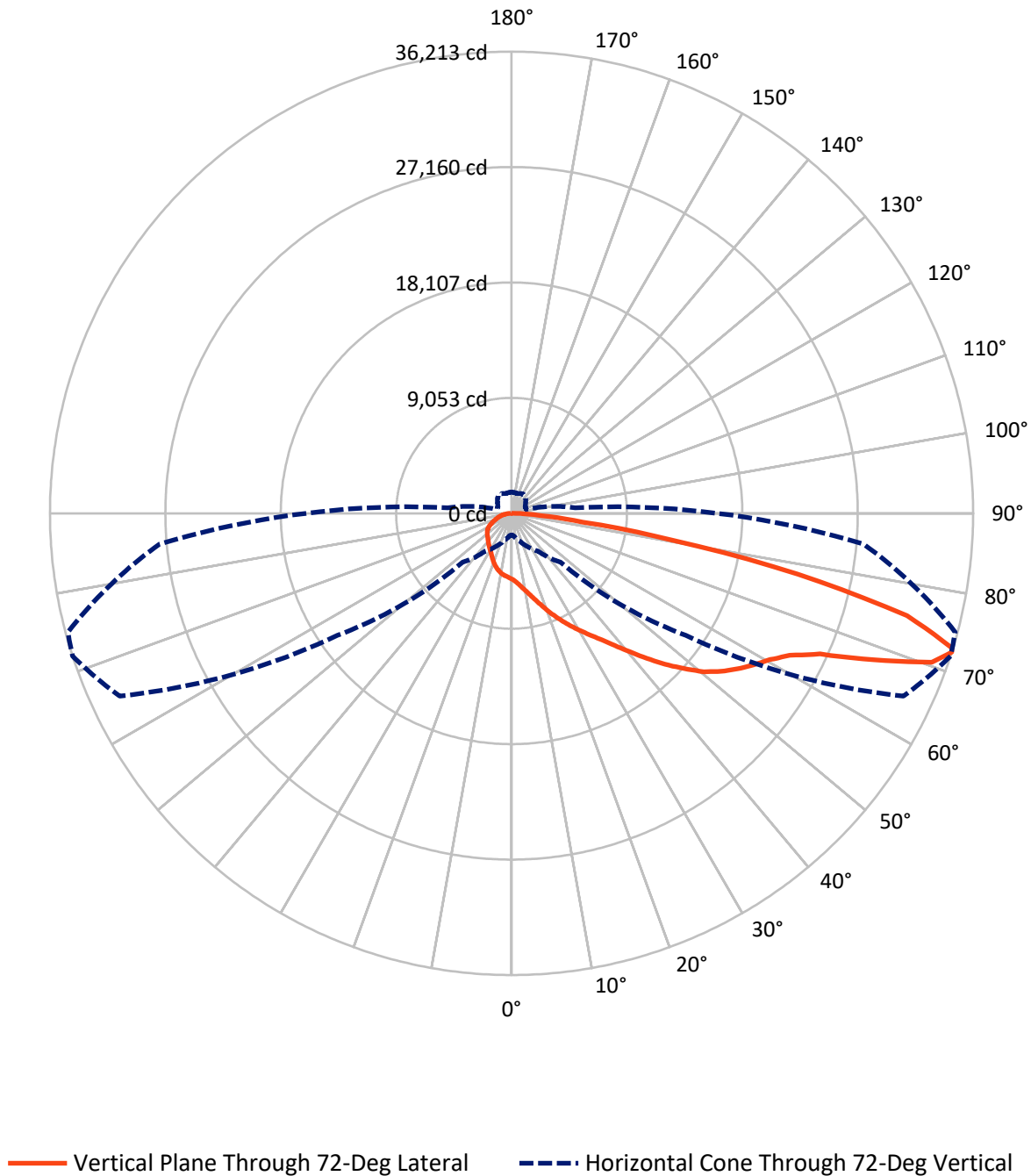
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P318003
CATALOG NUMBER: GAN-SA9B-727-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318003

CATALOG NUMBER: GAN-SA9B-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7777.4	0.0	7777.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34147.6	0.0	34147.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	41925.0	0.0	41925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	1.2
10°-20°	1670.2	4.0
20°-30°	2926.6	7.0
30°-40°	4339.3	10.4
40°-50°	6346.6	15.1
50°-60°	8732.8	20.8
60°-70°	9722.2	23.2
70°-80°	6587.8	15.7
80°-90°	1082.8	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41925.0	100.0
0°-180°	41925.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318003

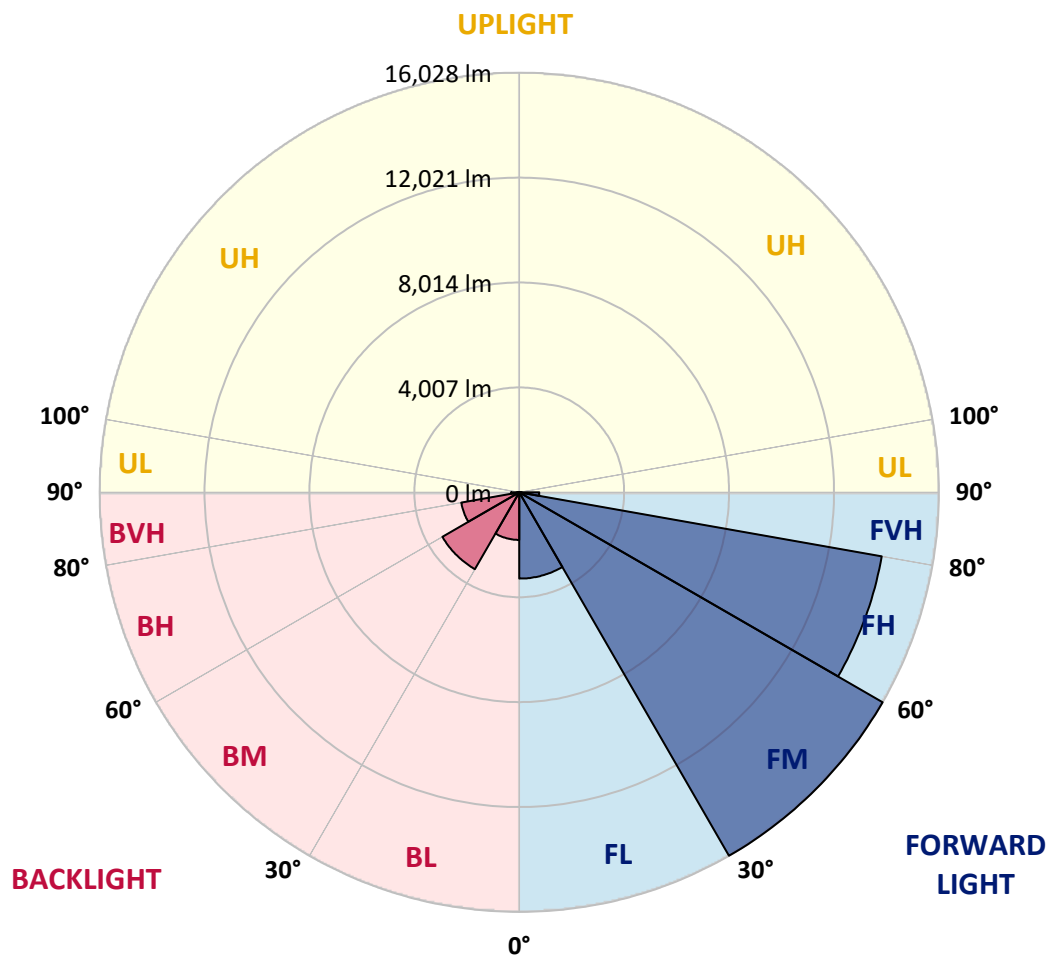
CATALOG NUMBER: GAN-SA9B-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3295.6	7.9			
FM	(30°-60°)	16028.4	38.2			
FH	(60°-80°)	14059.9	33.5			G5
FVH	(80°-90°)	763.8	1.8			G5
BL	(0°-30°)	1818.1	4.3	B3/2500		
BM	(30°-60°)	3390.2	8.1	B3/5000		
BH	(60°-80°)	2250.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	319.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P318003

CATALOG NUMBER: GAN-SA9B-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9
2.5°	5697.8	5689.1	5658.8	5658.8	5601.0	5552.0	5459.6	5397.5	5323.9	5297.9	5211.3
5°	6249.2	6252.1	6214.6	6188.6	6103.4	5999.5	5842.1	5699.2	5556.3	5498.6	5321.0
7.5°	6712.6	6706.8	6696.7	6675.1	6595.7	6488.8	6276.6	6064.4	5853.7	5767.1	5461.0
10°	7010.0	7023.0	7031.6	7041.7	7008.5	6932.0	6731.4	6473.0	6197.2	6078.9	5628.5
12.5°	7160.1	7183.2	7223.6	7292.9	7347.8	7339.1	7193.3	6919.0	6591.3	6442.6	5837.8
15°	7248.2	7278.5	7342.0	7466.1	7620.6	7708.7	7669.7	7421.4	7056.2	6872.8	6093.3
17.5°	7303.0	7327.6	7425.7	7591.7	7821.3	8055.1	8157.6	7949.7	7581.6	7372.3	6386.3
20°	7340.5	7359.3	7482.0	7676.9	7974.3	8346.7	8632.5	8580.6	8160.5	7889.1	6692.4
22.5°	7424.3	7440.1	7557.1	7753.4	8082.5	8563.2	9090.1	9168.1	8771.1	8463.6	7020.1
25°	7658.1	7658.1	7756.3	7893.4	8202.4	8750.9	9477.0	9822.0	9394.7	9036.7	7323.2
27.5°	8104.2	8099.9	8135.9	8183.6	8417.4	8941.5	9822.0	10399.5	10041.5	9650.3	7617.7
30°	8632.5	8661.4	8665.7	8642.6	8752.4	9179.6	10141.1	11008.7	10692.5	10271.0	7919.4
32.5°	9312.5	9331.2	9309.6	9233.1	9217.2	9517.4	10454.3	11646.7	11397.0	10919.1	8195.1
35°	10175.7	10139.6	10071.8	9915.9	9767.2	9969.3	10812.3	12284.8	12188.0	11703.0	8574.8
37.5°	11101.0	11102.5	11018.8	10665.1	10460.1	10546.7	11306.0	13008.0	13145.1	12635.6	9061.3
40°	11843.0	11882.0	11934.0	11469.1	11203.5	11323.3	11934.0	13846.7	14276.9	13741.3	9695.0
42.5°	12361.3	12406.0	12553.3	12261.7	11985.9	12208.3	12673.1	14741.7	15547.2	15017.4	10437.0
45°	12909.8	12934.4	13038.3	12912.7	12736.6	13237.5	13506.0	15668.5	16891.2	16377.3	11267.0
47.5°	13487.3	13513.2	13620.1	13536.3	13443.9	14198.9	14375.1	16541.8	18178.9	17871.4	12153.4
50°	14200.4	14217.7	14318.8	14167.2	14196.0	14923.6	15151.7	17343.0	19528.6	19213.9	13042.6
52.5°	15173.3	15177.7	15317.7	15180.6	15044.9	15454.8	15820.1	18098.0	20586.7	20438.0	13931.9
55°	15935.5	15981.7	16440.8	16411.9	16334.0	15937.0	16378.7	18816.9	21530.8	21601.6	14876.0
57.5°	15449.1	15629.5	16559.2	17214.5	17852.6	17136.6	17133.7	19626.8	22408.5	22743.4	15913.9
60°	13530.6	13776.0	15145.9	16599.6	18596.0	19224.0	18701.4	20615.6	23294.9	23875.2	17214.5
62.5°	9663.2	10067.4	11923.9	14245.1	17576.9	20606.9	21891.7	22184.8	24500.2	25185.9	18905.0
65°	4885.0	5191.1	6747.2	9543.4	14043.0	19703.3	25359.2	25620.4	26594.9	27204.0	21507.7
67.5°	2968.0	3083.5	3842.8	5308.0	8609.4	15348.0	26490.9	31347.1	30648.4	30971.8	25219.1
70°	2187.0	2272.2	2745.7	3525.2	4951.4	9006.4	23017.7	35433.8	34974.8	34938.7	27961.9
72°	1703.4	1765.5	2184.1	2848.2	3620.5	5403.3	16683.3	33925.3	36213.3	36031.5	27710.7
72.5°	1615.4	1670.2	2051.3	2680.7	3421.3	4898.0	15000.1	32907.6	36123.8	36041.6	27385.9
75°	1271.8	1310.8	1518.6	2073.0	2677.8	2778.9	8219.7	25502.1	32045.8	33378.2	24631.6
77.5°	1052.4	1058.1	1167.8	1508.5	2087.4	1964.7	4037.7	17693.8	22947.0	24412.2	17448.4
80°	857.5	864.7	916.7	1058.1	1579.3	1453.7	1917.1	10174.3	12847.8	12863.6	8297.6
82.5°	682.8	684.3	742.0	773.8	1134.6	1039.4	1098.6	4776.8	5614.0	5400.4	2982.4
85°	480.7	470.6	724.7	635.2	742.0	666.9	606.3	1891.1	2321.3	2220.2	934.0
87.5°	160.2	166.0	321.9	411.4	433.1	378.2	269.9	724.7	876.2	869.0	295.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318003

CATALOG NUMBER: GAN-SA9B-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9	5157.9
2.5°	5183.9	5137.7	5069.8	4994.7	4935.6	4874.9	4830.2	4807.1	4781.1	4759.4	4785.4
5°	5238.7	5152.1	5007.7	4866.3	4762.3	4669.9	4603.5	4568.9	4537.1	4515.5	4518.4
7.5°	5328.2	5188.2	4945.7	4739.2	4594.9	4495.3	4427.4	4404.3	4384.1	4378.3	4385.6
10°	5423.5	5217.1	4863.4	4589.1	4424.5	4342.3	4311.9	4327.8	4342.3	4355.2	4369.7
12.5°	5531.8	5243.0	4743.6	4413.0	4273.0	4241.2	4271.5	4340.8	4391.3	4421.6	4440.4
15°	5673.2	5266.1	4605.0	4236.9	4143.0	4179.1	4281.6	4401.4	4489.5	4545.8	4554.5
17.5°	5803.1	5264.7	4427.4	4059.3	4037.7	4143.0	4297.5	4466.4	4584.8	4664.2	4680.0
20°	5937.4	5225.7	4221.0	3886.1	3930.8	4104.1	4304.7	4508.3	4651.2	4743.6	4765.2
22.5°	6063.0	5157.9	3994.4	3728.7	3841.3	4052.1	4277.3	4483.7	4626.6	4701.7	4724.8
25°	6148.2	5039.5	3764.8	3595.9	3761.9	3988.6	4187.8	4353.8	4460.6	4498.2	4503.9
27.5°	6191.5	4885.0	3548.3	3480.4	3679.7	3884.6	4021.8	4104.1	4134.4	4131.5	4125.7
30°	6197.2	4681.5	3362.1	3386.6	3584.4	3731.6	3796.6	3780.7	3741.7	3675.3	3681.1
32.5°	6178.5	4452.0	3206.2	3297.1	3463.1	3545.4	3548.3	3471.8	3367.8	3262.5	3233.6
35°	6184.2	4226.8	3069.0	3196.1	3315.9	3352.0	3318.8	3206.2	3064.7	2929.0	2900.1
37.5°	6247.8	4030.4	2950.7	3079.1	3152.8	3161.4	3113.8	2995.4	2891.5	2758.7	2747.1
40°	6399.3	3890.4	2838.1	2947.8	2989.6	2994.0	2926.1	2842.4	2851.0	2780.3	2778.9
42.5°	6672.2	3829.8	2738.4	2810.6	2836.6	2845.3	2793.3	2739.9	2815.0	2768.8	2752.9
45°	7024.4	3844.2	2654.7	2676.4	2724.0	2764.4	2732.7	2667.7	2696.6	2495.9	2429.5
47.5°	7431.5	3936.6	2588.3	2560.9	2643.2	2719.7	2670.6	2572.4	2469.9	2270.7	2233.2
50°	7907.9	4079.5	2527.7	2446.8	2555.1	2659.1	2610.0	2469.9	2315.5	2218.8	2205.8
52.5°	8404.5	4254.2	2467.1	2321.3	2444.0	2612.9	2588.3	2446.8	2256.3	2161.0	2143.7
55°	8967.4	4430.3	2390.5	2175.5	2324.1	2591.2	2578.2	2363.1	2211.5	2158.1	2145.1
57.5°	9667.6	4631.0	2289.5	2023.9	2211.5	2513.3	2472.8	2312.6	2165.4	2124.9	2120.6
60°	10579.9	4926.9	2143.7	1862.2	2074.4	2393.4	2384.8	2239.0	2091.7	2062.9	2057.1
62.5°	11948.4	5416.3	1943.0	1700.5	1921.4	2189.9	2269.3	2139.4	2013.8	2012.3	2015.2
65°	14070.5	6152.5	1725.1	1559.1	1766.9	2018.1	2135.0	2036.9	1934.4	1963.3	1967.6
67.5°	16530.3	6763.1	1511.4	1420.5	1609.6	1855.0	2013.8	1934.4	1829.0	1904.1	1905.5
70°	17348.8	6217.4	1323.8	1283.3	1446.5	1697.6	1882.4	1821.8	1715.0	1790.0	1782.8
72°	16144.9	5019.3	1202.5	1179.4	1323.8	1567.7	1765.5	1716.4	1611.0	1661.5	1642.8
72.5°	15765.2	4785.4	1172.2	1153.4	1290.5	1534.5	1735.2	1690.4	1585.0	1628.3	1611.0
75°	14063.2	4156.0	1007.6	1011.9	1126.0	1372.8	1564.8	1550.4	1442.1	1446.5	1440.7
77.5°	10200.3	3047.4	848.8	877.7	958.5	1206.8	1393.0	1384.4	1266.0	1244.4	1240.0
80°	4733.5	1554.7	691.5	704.5	788.2	1009.1	1188.1	1176.5	1081.2	1053.8	1037.9
82.5°	1621.1	739.1	519.7	528.3	610.6	812.7	1030.7	1023.5	944.1	890.7	857.5
85°	578.9	368.1	363.8	355.1	436.0	639.5	897.9	858.9	742.0	632.3	629.4
87.5°	187.7	157.3	187.7	186.2	254.1	433.1	652.5	555.8	538.5	447.5	438.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)